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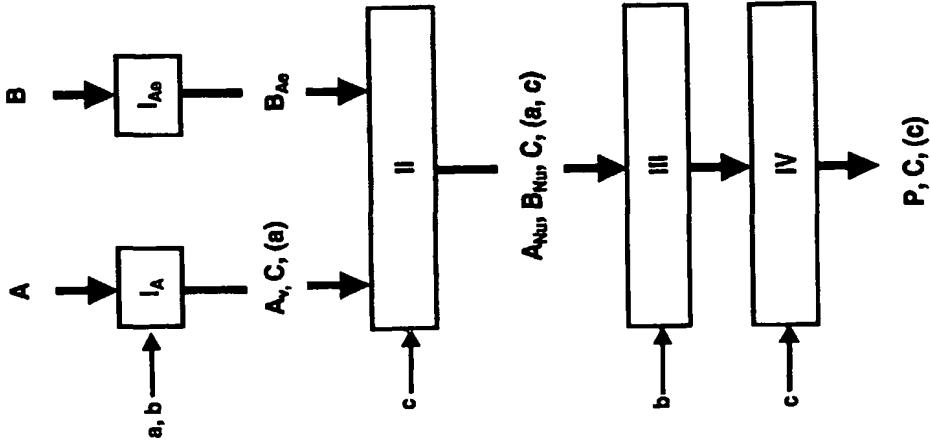
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(54) Title: DOPED ZINC OXIDE POWDER, PROCESS FOR ITS PREPARATION, AND ITS USE



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(57) Abstract: Pyrogenically prepared, doped zinc oxide powder, wherein the doping component comprises at least one oxide from the group aluminium, gallium, indium, germanium, tin and is present in the doped zinc oxide powder in an amount of from 0.005 to 15 wt.%, and wherein the doped zinc oxide powder is in the form of aggregates of primary particles having a mean maximum diameter of from 30 to 400 nm. It is prepared by oxidation from zinc powder and at least one doping agent, wherein the process zones vaporisation, nucleation, oxidation and quenching are passed through and the doping agent is metered in the nucleation zone, in which the temperature is below the boiling temperature of zinc. The doped zinc oxide powder can be used in electrically conductive lacquers and coatings.

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 03/07247

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C01G9/03 C01G9/00 C09C1/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C01G C09C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 597 380 A (MITSUI MINING & SMELTING CO) 18 May 1994 (1994-05-18) page 3, line 1 -page 5, line 38; claims 1-10; table 1	1-10
A	FUNAHASHI T ET AL: "MANUFACTURE OF ZINC OXIDE FINE PARTICLES WITH LARGE SPECIFIC SURFACE AREA" CHEMICAL ABSTRACTS + INDEXES, AMERICAN CHEMICAL SOCIETY, COLUMBUS, US, VOL. 109, no. 22, 1 November 1988 (1988-11-01), page 167 XP000019653 ISSN: 0009-2258 abstract	11
A	----- ----- -----	1-18

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Date of the actual completion of the International search

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 435 005 A (AMERICAN ZINC LEAD & SMELTING) 12 September 1935 (1935-09-12) claims 1-11 -----	11-17
T	WO 03 080515 A (DEGUSSA ;KRESS PETER (DE); STAAB EDWIN (DE); KATUSIC STIPAN (DE);) 2 October 2003 (2003-10-02) the whole document -----	1-18

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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